

# Object Oriented Programming - Java

## Div II – Batch 2

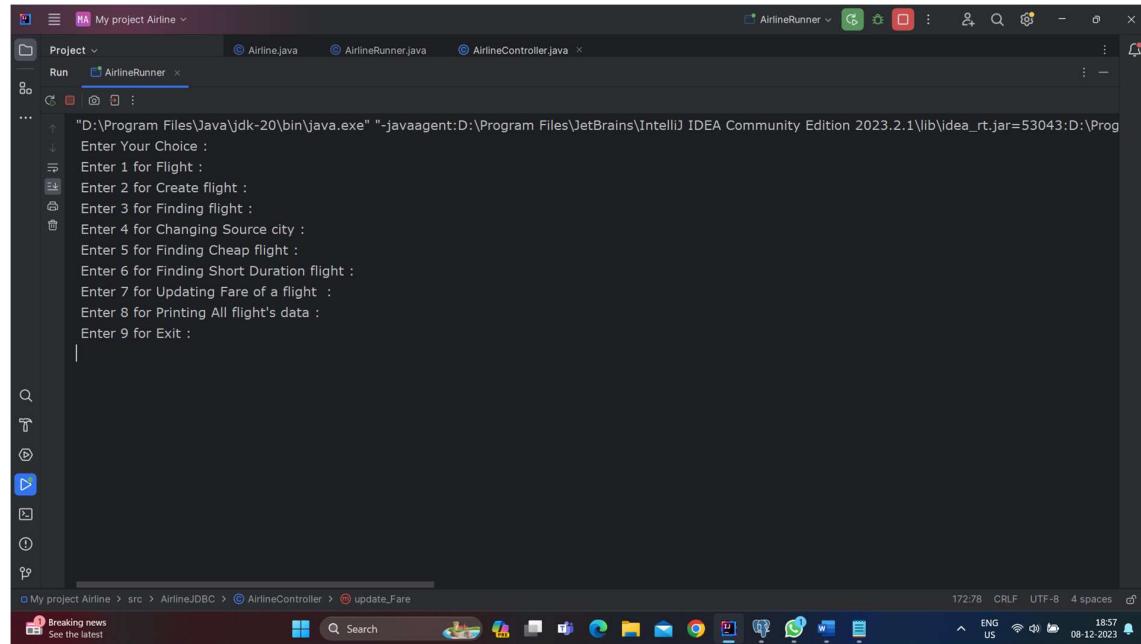
### “Teacher Assessment - Airline”

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Roll No: - 60 (DIV II)

#### Steps to Run the Program:

- Step 1 : Run the AirlineRunner Class.  
The console window will pop-up.
- Step 2 : Enter your Desired Choice from the given window.



The screenshot shows the IntelliJ IDEA interface with the project 'My project Airline' open. The 'Run' tool window is active, showing the command used to run the application: "D:\Program Files\Java\jdk-20\bin\java.exe" "-javaagent:D:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2023.2.1\lib\idea\_rt.jar=53043:D:\Prog". Below this, the run output window displays a series of menu options for an airline system:

```
"D:\Program Files\Java\jdk-20\bin\java.exe" "-javaagent:D:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2023.2.1\lib\idea_rt.jar=53043:D:\Prog
Enter Your Choice :
Enter 1 for Flight :
Enter 2 for Create flight :
Enter 3 for Finding flight :
Enter 4 for Changing Source city :
Enter 5 for Finding Cheap flight :
Enter 6 for Finding Short Duration flight :
Enter 7 for Updating Fare of a flight :
Enter 8 for Printing All flight's data :
Enter 9 for Exit :
```

## Output Screenshots:

- For Creating table you have to enter 1:

```
"D:\Program Files\Java\jdk-20\bin\java.exe" "-javaagent:D:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2023.2.1\lib\idea_rt.jar=52127:D:\Prog
Enter Your Choice :
Enter 1 for Flight :
Enter 2 for Create flight :
Enter 3 for Finding flight :
Enter 4 for Changing Source city :
Enter 5 for Finding Cheap flight :
Enter 6 for Finding Short Duration flight :
Enter 7 for Updating Fare of a flight :
Enter 8 for Printing All flight's data :
Enter 9 for Exit :
1
Table created.
Do you want to Continue ? ? ?
```

- DataBase : The table is created in database.

```
File Object Tools Help
Object Explorer
Servers (1)
PostgreSQL 16
Databases (2)
Utkarsh
Casts
Catalogs
Event Triggers
Extensions
Foreign Data Wrappers
Languages
Publications
Schemas (1)
public
Aggregates
Collations
Domains
FTS Configurations
FTS Dictionaries
FTS Parsers
FTS Templates
Foreign Tables
Functions
Materialized Views
Operators
Procedures
Sequences
Tables (2)
airline
Columns
Constraints
Indexes
```

Dashboard Properties SQL Statistics Dependencies Dependents Processes public.airline/U... Utkarsh/postgr... public.airline/L...

Query Query History

```
1 SELECT * FROM public.airline
2
```

Data Output Messages Notifications

flight_no	airline_name	travel_duration	source_city	destination_city	fare_econ	fare_first	fare_bus
integer	character varying (50)	double precision	character varying (50)	character varying (50)	double precision	double precision	double precision

Total rows: 0 of 0 Query complete 00:00:00.147 Ln 1, Col 1

➤ For Inserting into table enter 2:

```
...  
Enter 3 for Finding Cheap flight :  
Enter 6 for Finding Short Duration flight :  
Enter 7 for Updating Fare of a flight :  
Enter 8 for Printing All flight's data :  
Enter 9 for Exit :  
2  
Enter the Airline Company name  
Indigo  
Enter travel duration in hours:  
5  
Enter Source city  
Mumbai  
Enter Destination city  
Kolkata  
Enter the fare for Economy Class of flight:  
1500  
Enter the fare for First Class of flight:  
2000  
Enter the fare for Business Class of flight:  
3000  
Flight is Inserted.  
Do you want to Continue ? ? ?  
|
```

➤ For finding Flight for the Source and Destination city enter 3:

```
...  
"D:\Program Files\Java\jdk-20\bin\java.exe" "-javaagent:D:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2023.2.1\lib\idea_rt.jar=52566:D:\Prog  
Enter Your Choice :  
Enter 1 for Flight :  
Enter 2 for Create flight :  
Enter 3 for Finding flight :  
Enter 4 for Changing Source city :  
Enter 5 for Finding Cheap flight :  
Enter 6 for Finding Short Duration flight :  
Enter 7 for Updating Fare of a flight :  
Enter 8 for Printing All flight's data :  
Enter 9 for Exit :  
3  
Enter the Source city  
Mumbai  
Enter the Destination city  
Puri  
2 | Spicejet | 5 | Mumbai | Puri | 2000.0 | 3500.0 | 4500.0  
Record is Shown.  
Do you want to Continue ? ? ?  
|
```

➤ For Changing Source City enter 4:

```
My project Airline > AirlineRunner > Airline.java > AirlineRunner.java > AirlineController.java > create_Flight
```

```
Project Run AirlineRunner
```

```
...  
1 | 3 | 5 | Mumbai | Kolkata | 1500.0 | 2000.0 | 3000.0  
2 | 5 | Mumbai | Puri | 2000.0 | 3500.0 | 4500.0  
Do you want to Continue ? ? ?  
y  
Enter Your Choice :  
Enter 1 for Flight :  
Enter 2 for Create flight :  
Enter 3 for Finding flight :  
Enter 4 for Changing Source city :  
Enter 5 for Finding Cheap flight :  
Enter 6 for Finding Short Duration flight :  
Enter 7 for Updating Fare of a flight :  
Enter 8 for Printing All flight's data :  
Enter 9 for Exit :  
4  
Enter the Source city  
Delhi  
Enter the Flight no  
1  
1 | Indigo | 5 | Delhi | Kolkata | 1500.0 | 2000.0 | 3000.0  
Record Has Been Updated.  
Do you want to Continue ? ? ?
```

```
My project Airline > src > AirlineJDBC > AirlineController > create_Flight
```

```
47:38 CRLF UTF-8 4 spaces
```

```
24°C Haze
```

```
Search
```

```
47:38 CRLF UTF-8 4 spaces
```

```
ENG US 18:00 08-12-2023
```

➤ For Finding the cheapest Flight between Source city and Destination city enter 5:

```
My project Airline > AirlineRunner > Airline.java > AirlineRunner.java > AirlineController.java > create_Flight
```

```
Project Run AirlineRunner
```

```
...  
1 | 3 | 5 | Mumbai | Kolkata | 1500.0 | 2000.0 | 3000.0  
3 | 2 | Mumbai | Delhi | 1500.0 | 2000.0 | 3000.0  
4 | 2 | Mumbai | Delhi | 1000.0 | 1500.0 | 2500.0  
Do you want to Continue ? ? ?  
y  
Enter Your Choice :  
Enter 1 for Flight :  
Enter 2 for Create flight :  
Enter 3 for Finding flight :  
Enter 4 for Changing Source city :  
Enter 5 for Finding Cheap flight :  
Enter 6 for Finding Short Duration flight :  
Enter 7 for Updating Fare of a flight :  
Enter 8 for Printing All flight's data :  
Enter 9 for Exit :  
5  
Enter the Source city  
Mumbai  
Enter the Destination city  
Delhi  
4 | AirIndia | 2 | Mumbai | Delhi | 1000.0 | 1500.0 | 2500.0  
Do you want to Continue ? ? ?
```

```
My project Airline > src > AirlineJDBC > AirlineController > create_Flight
```

```
47:38 CRLF UTF-8 4 spaces
```

```
23°C Haze
```

```
Search
```

```
47:38 CRLF UTF-8 4 spaces
```

```
ENG US 18:06 08-12-2023
```

- If you enter the wrong Source city or Destination city.

```

My project Airline ~
Run AirlineRunner
... Enter the Destination city
Delhi
4 | AirIndia | 2 | Mumbai | Delhi | 1000.0 | 1500.0 | 2500.0
Do you want to Continue ? ? ?
y
Enter Your Choice :
Enter 1 for Flight :
Enter 2 for Create flight :
Enter 3 for Finding flight :
Enter 4 for Changing Source city :
Enter 5 for Finding Cheap flight :
Enter 6 for Finding Short Duration flight :
Enter 7 for Updating Fare of a flight :
Enter 8 for Printing All flight's data :
Enter 9 for Exit :
5
Enter the Source city
Kolkata
Enter the Destination city
Delhi
No Flight Found between Kolkata and Delhi
Do you want to Continue ? ? ?

```

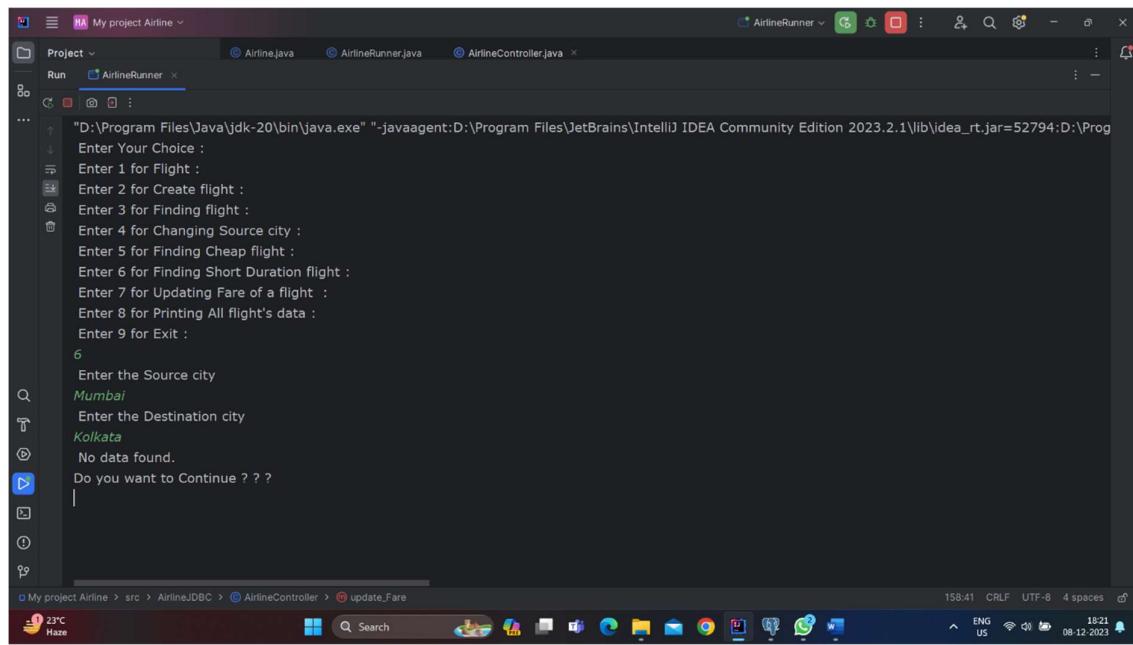
- For finding Short Duration Flight between Source and Destination City enter 5:

```

My project Airline ~
Run AirlineRunner
... Enter the fare for Business class of flight
4000
Flight is Inserted.
Do you want to Continue ? ? ?
y
Enter Your Choice :
Enter 1 for Flight :
Enter 2 for Create flight :
Enter 3 for Finding flight :
Enter 4 for Changing Source city :
Enter 5 for Finding Cheap flight :
Enter 6 for Finding Short Duration flight :
Enter 7 for Updating Fare of a flight :
Enter 8 for Printing All flight's data :
Enter 9 for Exit :
6
Enter the Source city
Delhi
Enter the Destination city
Kolkata
5 | Spicejet | 4 | Delhi | Kolkata | 2000.0 | 3000.0 | 4000.0
Do you want to Continue ? ? ?

```

- If you enter the wrong Source or Destination City

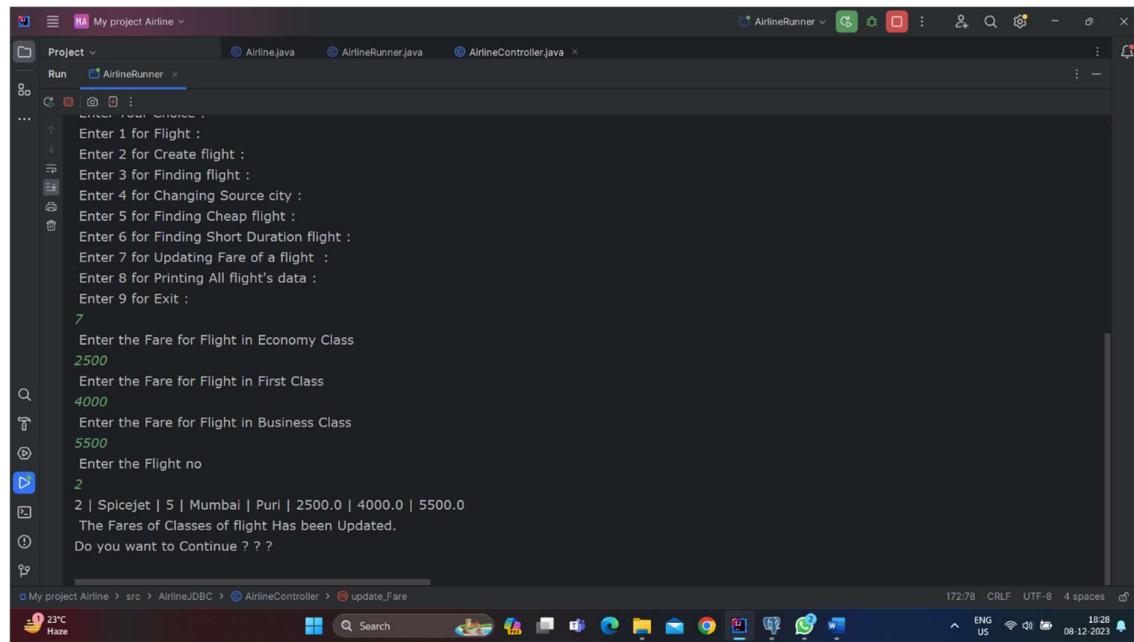


```

My project Airline > Run > AirlineRunner > AirlineController.java > update_Fare
D:\Program Files\Java\jdk-20\bin\java.exe" "-javaagent:D:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2023.2.1\lib\idea_rt.jar=52794:D:\Prog
Enter Your Choice :
Enter 1 for Flight :
Enter 2 for Create flight :
Enter 3 for Finding flight :
Enter 4 for Changing Source city :
Enter 5 for Finding Cheap flight :
Enter 6 for Finding Short Duration flight :
Enter 7 for Updating Fare of a flight :
Enter 8 for Printing All flight's data :
Enter 9 for Exit :
6
Enter the Source city
Mumbai
Enter the Destination city
Kolkata
No data found.
Do you want to Continue ? ? ?
|
```

The screenshot shows an IntelliJ IDEA terminal window with the title "My project Airline". It displays a menu of options for flight management. When option 6 (Finding Short Duration flight) is selected, it asks for the source city ("Enter the Source city") and destination city ("Enter the Destination city"). Both "Mumbai" and "Kolkata" are entered. The response indicates "No data found." and asks if the user wants to continue.

- For Updating the Fare of a flight enter 7: It will update the fare of Economy Class, First Class, Business Class .

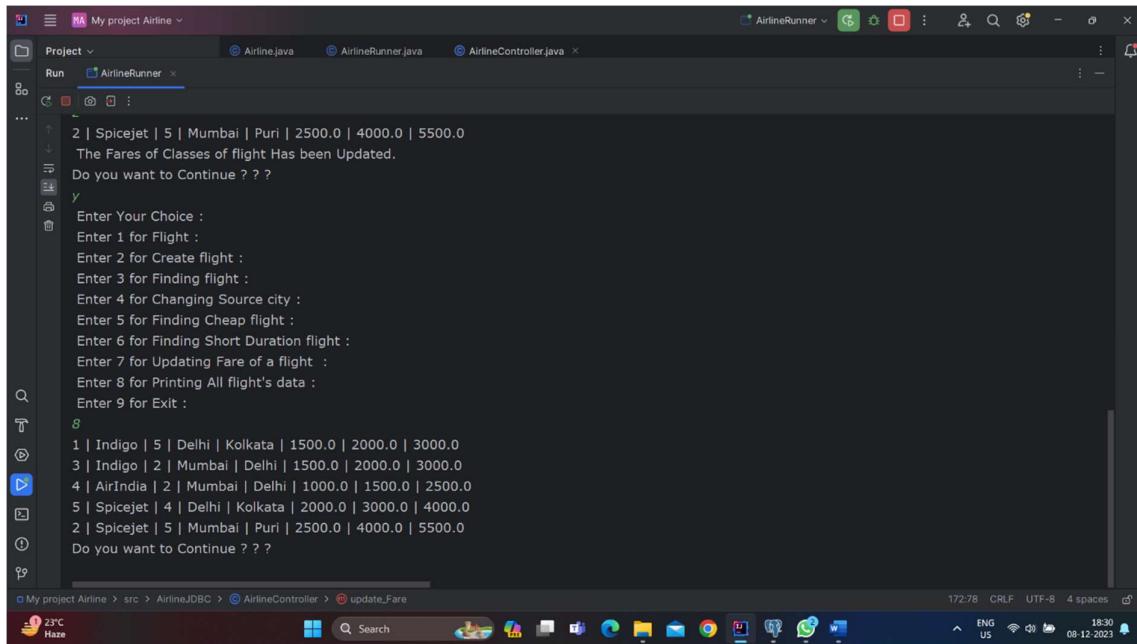


```

My project Airline > Run > AirlineRunner > AirlineController.java > update_Fare
Enter Your Choice :
Enter 1 for Flight :
Enter 2 for Create flight :
Enter 3 for Finding flight :
Enter 4 for Changing Source city :
Enter 5 for Finding Cheap flight :
Enter 6 for Finding Short Duration flight :
Enter 7 for Updating Fare of a flight :
Enter 8 for Printing All flight's data :
Enter 9 for Exit :
7
Enter the Fare for Flight in Economy Class
2500
Enter the Fare for Flight in First Class
4000
Enter the Fare for Flight in Business Class
5500
Enter the Flight no
2
2 | Spicejet | 5 | Mumbai | Puri | 2500.0 | 4000.0 | 5500.0
The Fares of Classes of flight Has been Updated.
Do you want to Continue ? ? ?
|
```

The screenshot shows an IntelliJ IDEA terminal window with the title "My project Airline". It displays a menu of options for flight management. When option 7 (Updating Fare of a flight) is selected, it prompts for the fare for Economy class (2500), First class (4000), and Business class (5500). It then asks for the flight number (2). The response shows the updated flight details and asks if the user wants to continue.

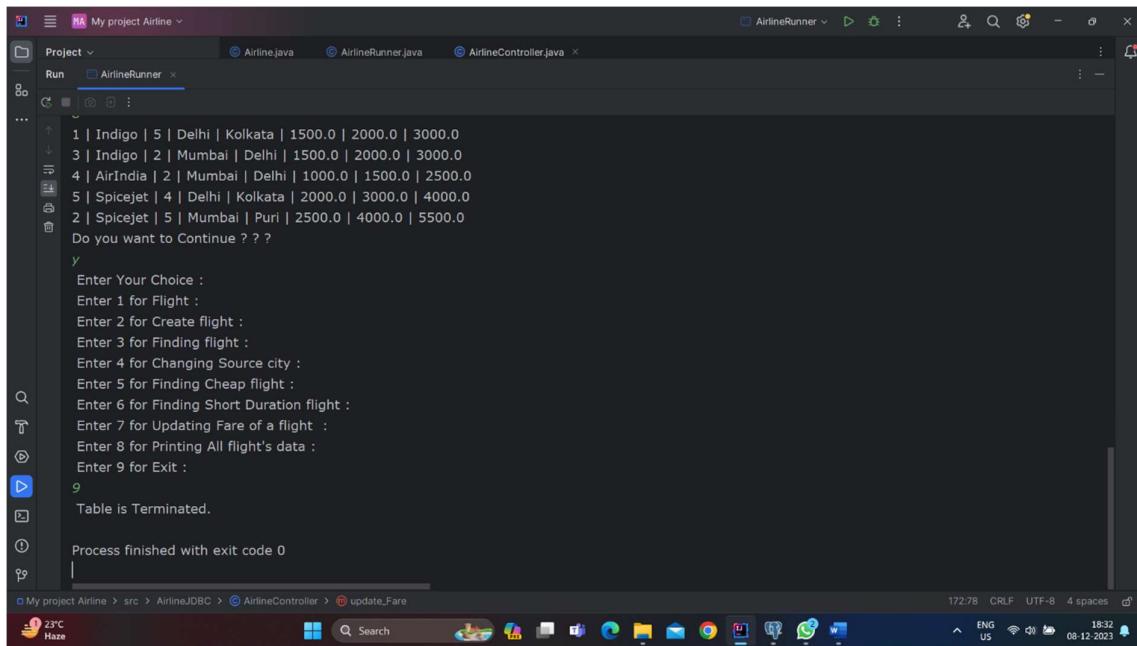
➤ For Printing All Flights Data enter 8:



The screenshot shows an IDE interface with a terminal window displaying flight data. The terminal output is as follows:

```
2 | Spicejet | 5 | Mumbai | Puri | 2500.0 | 4000.0 | 5500.0
The Fares of Classes of flight Has been Updated.
Do you want to Continue ? ? ?
y
Enter Your Choice :
Enter 1 for Flight :
Enter 2 for Create flight :
Enter 3 for Finding flight :
Enter 4 for Changing Source city :
Enter 5 for Finding Cheap flight :
Enter 6 for Finding Short Duration flight :
Enter 7 for Updating Fare of a flight :
Enter 8 for Printing All flight's data :
Enter 9 for Exit :
8
1 | Indigo | 5 | Delhi | Kolkata | 1500.0 | 2000.0 | 3000.0
3 | Indigo | 2 | Mumbai | Delhi | 1500.0 | 2000.0 | 3000.0
4 | AirIndia | 2 | Mumbai | Delhi | 1000.0 | 1500.0 | 2500.0
5 | Spicejet | 4 | Delhi | Kolkata | 2000.0 | 3000.0 | 4000.0
2 | Spicejet | 5 | Mumbai | Puri | 2500.0 | 4000.0 | 5500.0
Do you want to Continue ? ? ?
```

➤ If You enter 9: The table is Terminated.

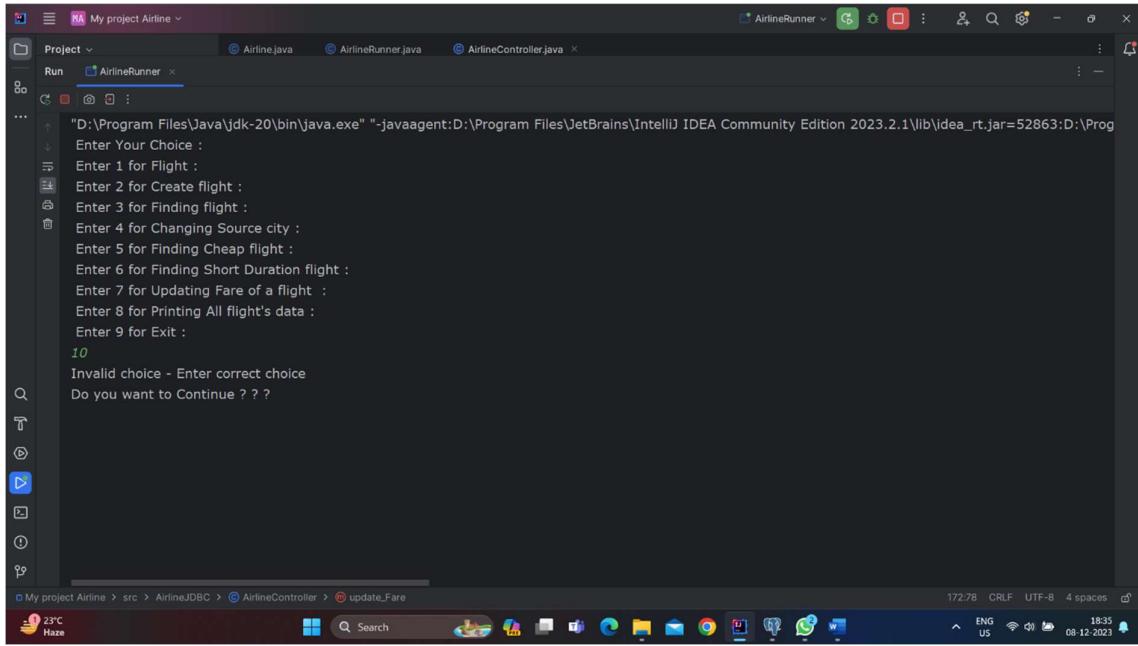


The screenshot shows an IDE interface with a terminal window displaying flight data. The terminal output is as follows:

```
1 | Indigo | 5 | Delhi | Kolkata | 1500.0 | 2000.0 | 3000.0
3 | Indigo | 2 | Mumbai | Delhi | 1500.0 | 2000.0 | 3000.0
4 | AirIndia | 2 | Mumbai | Delhi | 1000.0 | 1500.0 | 2500.0
5 | Spicejet | 4 | Delhi | Kolkata | 2000.0 | 3000.0 | 4000.0
2 | Spicejet | 5 | Mumbai | Puri | 2500.0 | 4000.0 | 5500.0
Do you want to Continue ? ? ?
y
Enter Your Choice :
Enter 1 for Flight :
Enter 2 for Create flight :
Enter 3 for Finding flight :
Enter 4 for Changing Source city :
Enter 5 for Finding Cheap flight :
Enter 6 for Finding Short Duration flight :
Enter 7 for Updating Fare of a flight :
Enter 8 for Printing All flight's data :
Enter 9 for Exit :
9
Table is Terminated.

Process finished with exit code 0
```

➤ If you not enter the number 9 then this will happen.



The screenshot shows the IntelliJ IDEA interface with a terminal window open. The terminal window title is "My project Airline" and the tab is "AirlineRunner". The terminal output shows a menu of options:

```
"D:\Program Files\Java\jdk-20\bin\java.exe" "-javaagent:D:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2023.2.1\lib\idea_rt.jar=52863:D:\Prog
Enter Your Choice :
Enter 1 for Flight :
Enter 2 for Create flight :
Enter 3 for Finding flight :
Enter 4 for Changing Source city :
Enter 5 for Finding Cheap flight :
Enter 6 for Finding Short Duration flight :
Enter 7 for Updating Fare of a flight :
Enter 8 for Printing All flight's data :
Enter 9 for Exit :
10
Invalid choice - Enter correct choice
Do you want to Continue ? ? ?
```

The terminal window has a dark theme. The IntelliJ UI elements like the Project and Run toolbars are visible at the top. The status bar at the bottom shows file paths, encoding, and system information.